

## SEDIMENT DATA SUMMARY 6/26/10

### Region 6:

- A total of 94 sediment samples have been collected to date. The first samples were collected 4/30/10. Samples have been analyzed by Gulf Coast Analytical and Accutest (R6 START labs).
- Requested parameters include:
  - Volatiles by SW846 8260
  - Semivolatiles by SW846 8270
  - Polynuclear Aromatic Hydrocarbons by SW846 8270 SIM
  - Metals by SW846 6010/7470
  - Total Petroleum Hydrocarbons (Gasoline, diesel, and oil Range Organics) by SW846 8015
  - Oil and Grease

Parrish	Total Samples	Samples with Final Results	Samples with Prelim results	Samples with no results
Not Identified	3	3	0	0
Cameron	17	13	0	4
Iberia	7	7	0	0
Jefferson	1	1	0	0
Lafourche	9	9	0	0
Plaquemines	20	20	0	0
St Bernard	9	9	0	0
St Mary	6	6	0	0
Terrebonne	14	13	0	1
Vermillion	8	8	0	0

### Analytical Issues Being Confronted:

Due to the high moisture content of the samples and matrix interference, the laboratory is often required to re-run the samples to confirm the reported results. Any time that re-runs are required, the laboratory Level 2 deliverable is delayed by one day. Which consequently delays the upload of final data to Scribe.

### Cost per Sample

**\$1170** VOCs (\$140), SVOCs (\$300), PAH by SIM (\$160), metals (\$230), TPH (\$150), TOC (\$100), and O&G (\$90) for results reported on Tuesday thru Friday.

**\$1755** VOCs (\$210), SVOCs (\$450), PAH by SIM (\$240), metals (\$345), TPH (\$225), TOC (\$150), and O&G (\$135) for results reported Saturday thru Monday

**\$475** For 3 of 5 dispersants on water samples.

## Results and Early Conclusions

- The sediment samples collected through June 13, 2010 along the Gulf coast did not reveal elevated levels of chemicals usually found in oil.
- The following conclusions represent data from pre-impact sampling:
- Several samples of the following metals: arsenic, copper, and nickel exceeded an ecological screening level.
- Several samples of the following SVOC: dibenz(a,h) anthracene exceeded an ecological screening level.
- Two samples of the VOC chlorobenzene exceeded an ecological screening level.
- Potential ecological impacts from concentrations above screening levels are specific to individual species of plants and animals.
- The following table is a summary of exceedances for sediment:

<b>Metal</b>	<b># of Samples</b>	<b>Dates of Samples</b>
Arsenic	17	May 1,2,7,9,11,12,16. Jun 4,6,7
Copper	19	Apr 30, May 1,2, 5,6,7,12,13,16, Jun 4,6
Mercury	2	May 5
Nickel	31	Apr 30, May 1,2,3,5,6,7,9,12,14,16, Jun 4,6,7
<b>SVOC</b>		
Acenaphthene	2	May 1,2
Acenaphthylene	1	May 1
Anthracene	1	May 1
Benzo(a)anthracene	3	May 1,2, Jun 13, 20
Benzo(a)pyrene	2	May 1, Jun 1
Dibenz(a,h)anthracene	10	May 1,2,3,7
Fluoranthene	1	
Fluorene	1	
Phenanthrene	4	May 1, Jun 1, 13, 20
Pyrene	2	May 1, Jun 20
<b>VOC</b>		
Chlorobenzene	2	May 6
Chrysene	1	Jun 20